# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 113643 | (lightweight adj rim or wheel adj rim or light adj weight) and structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:28 |
| L3 | 380 | L1 and collect$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes) and (vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:31 |
| L4 | 13 | L3 and (CAD or SEM or arachnoidiscus or FEM or finite adj element adj method) and (model$1 or prototype or template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:35 |
| L5 | 1 | L4 and (prepar$3 or obtaining) and parameter and (bio adj mineralized adj unicellular adj organisms) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:39 |
| L6 | 0 | L5 and (@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:39 |
| L7 | 1 | (bio adj mineralized adj unicellular adj organisms) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:40 |
| L8 | 1 | bio adj mineralized adj unicellular adj organisms | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:41 |
| L9 | 113 | (bio adj mineralized adj unicellular adj organisms or shell adj architectures) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:42 |

| L10 | 1 | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and collect$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:43 |
|-----|---|-----|-----|-----|-----|-----|
| L11 | 1 | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:43 |
| L12 | 3 | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:43 |
| L13 | 2 | L9 and preselection and (diatoms or radiolaria or arachnoidiscus) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:47 |
| L14 | 0 | L13 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:47 |
| L15 | 2 | L9 and(diatoms or radiolaria or arachnoidiscus) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:48 |
| L16 | 4 | preselect$3 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:48 |
| L17 | 1 | L16 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:48 |
| L18 | 1 | L16 and @ad<"20031130" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:49 |

| L19 | 0 | L18 and(lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:51 |
|---|---|---|---|---|---|---|
| L20 | 0 | L18 and(lightweight adj rim or wheel adj rim or light adj weight or spokes) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:51 |
| S1 | 56 | lightweight adj rim | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:51 |
| S2 | 0 | S1 and diatoms and microstructure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:52 |
| S3 | 2 | S1 and diatoms | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:52 |
| S4 | 1 | S1 and automotive adj vehicle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:00 |
| S5 | 51610 | automotive adj vehicle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:01 |
| S6 | 1 | S5 and lightweight adj rim | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:02 |
| S7 | 528 | S5 and(lightweight adj rim or wheel adj rim) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:03 |
| S8 | 0 | S7 and(lightweight adj rim or wheel adj rim)and innner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:05 |

| S9 | 0 | S7 and(rim or wheel adj rim) and innner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:05 |
|---|---|---|---|---|---|---|
| S10 | 0 | (vehicle or automotive)and (rim or wheel adj rim)and innner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:06 |
| S11 | 0 | (vehicle or automotive)and (rim or wheel adj rim)and innner adj rim | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:07 |
| S12 | 1 | S7 and(lightweight adj rim or wheel adj rim)and inner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:07 |
| S13 | 1 | S7 and(lightweight adj rim or wheel adj rim or spoke)and inner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:08 |
| S14 | 1 | (plurality or plural$1)and(rib adj structureght or wheel adj rim or spoke)and inner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:11 |
| S15 | 1 | (plurality or plural$1)and(rib adj structur or wheel adj rim or spoke)and inner adj rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:12 |
| S16 | 131 | annular adj spokes | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:13 |
| S17 | 109 | S16 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:21 |
| S18 | 102 | S17 and @ad<"20031130" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:21 |

| S19 | 2 | S18 and spoke adj structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:23 |
|---|---|---|---|---|---|---|
| S20 | 2 | S19 and @ad<"20031130" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:23 |
| S21 | 2 | S17 and spoke adj structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:35 |
| S22 | 3 | S7 and inner same rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:36 |
| S23 | 3 | S7 and inner and rim adj body | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:36 |
| S24 | 102 | (("(20070112522") or ("5434962") or ("6155450") or ("5564381") or ("5355474") or ("4609912") or ("4772632") or ("5284774") or ("5434952") or ("5557503") or ("6087228") or ("6178805") or ("5616376") or ("4380569") or ("4493203") or ("4522390") or ("4604844") or ("4791965") or ("4825578") or ("4941767") or ("5187826") or ("5199530") or ("5214572") or ("5560137") or ("5634483") or ("5771992") or ("5857732") or ("5955013") or ("5966896") or ("5966894") or ("6116644") or ("6135017") or ("6194790") or ("5981094") or ("5999010") or ("4027004") or ("4294661") or ("4385957") or ("4526312") or ("4544901") or ("4600852") or ("4604706") or ("4763902") or ("4849668") or ("4902787") or ("4988919") or ("5206951") or ("5207371") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/03/19 11:38 |

| | | or ("5226161") or ("5256990") or (").pn.")).PN. | | | | |
|---|---|---|---|---|---|---|
| S25 | 1 | S5 and S24 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:38 |
| S26 | 0 | automobile adj wheel and inner adj rim and mounted adj axle and outer adj rimi | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:42 |
| S27 | 0 | automobile adj wheel and inner adj rim and mounted adj axle and outer adj rim | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:42 |
| S28 | 1 | S24 and automotive adj vehicle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:43 |
| S29 | 1 | S28 and rib adj like and radial adj spokes | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:44 |
| S30 | 1 | structural and prototype adj data and(lightweight adj rim or wheel adj rim) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:47 |
| S31 | 1 | structural adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:48 |
| S32 | 59 | collect$3 adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:49 |
| S33 | 0 | S32 and automobile adj wheel and(inner or outer)adj rim and mounted adj axle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:50 |
| S34 | 0 | S32 and (inner or outer)adj rim and mounted adj axle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:50 |

| S35 | 0 | S32 and (inner or outer)adj rim adj body and mounted adj axle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:51 |
|---|---|---|---|---|---|---|
| S36 | 0 | S32 and vechicle and inner adj rim | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:51 |
| S37 | 1 | S32 and collect$3 adj data and diatoms and(lightweight adj rim or wheel adj rim)and (vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:53 |
| S38 | 6 | S32 and collect$3 adj data and (diatoms or microstructure)and (lightweight adj rim or wheel adj rim)and(vehicle or automotive) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S39 | 0 | S38 and @ad< "20031130" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S40 | 5 | S38 and(@ad< "20031130" or @rlad< "20031130" or @prad< "20031130" or @ptad< "20031130") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S41 | 0 | S32 and mounted adj axle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:59 |
| S42 | 1 | S32 and rim adj body and spoke adj structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 12:01 |
| S43 | 1 | S38 and rim adj body and spoke adj structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 12:02 |
| S44 | 1 | ((CHRISTIAN) near2 (HAMM-DUBISCHAR)).INV. | US-PGPUB; USPAT | OR | ON | 2009/03/19 12:10 |

| S45 | 1 | (automotive and vehicle and inner adj rim adj body and outer adj rim and spoke adj structure and determining and structural adj data and prototype and lightweight and radial adj spokes and width and annular adj spokes).CLM. | US-PGPUB | OR | ON | 2009/03/19 12:14 |
|---|---|---|---|---|---|---|

**7/23/09 10:52:31 AM**
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